

WEST Search History

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10/13/05

DATE: Thursday, October 13, 2005

Hide? Set Name Query**Hit Count***DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR*

<input type="checkbox"/>	L1	murc or mur-c or (mur nearc)	2425
<input type="checkbox"/>	L2	murc or mur-c or (mur near c)	187
<input type="checkbox"/>	L3	L2 and (pseudomonas or aeruginosa)	65
<input type="checkbox"/>	L4	L2 same (pseudomonas or aeruginosa)	17
<input type="checkbox"/>	L5	UDP-N-acetylmuramate	32
<input type="checkbox"/>	L6	UDP-N-acetyl- MURC	227
<input type="checkbox"/>	L7	UDP-N-acetylmuramate-alanine ligase	32437
<input type="checkbox"/>	L8	UDP-N-acetylmuramate-alanine near ligase	25
<input type="checkbox"/>	L9	UDP-N-acetylmuramyl near tripeptide near synthetase	3
<input type="checkbox"/>	L10	UDP-N-acetyl-MURC	0
<input type="checkbox"/>	L11	UDP-N-acetylmuramate-alanine near murC near ligase	1
<input type="checkbox"/>	L12	UDP-N-acetylmuramate-alanine near ligase	25
<input type="checkbox"/>	L13	l4 or l5 or l8 or l9 or l11 or l12	62
<input type="checkbox"/>	L14	L13 same (pseudomonas or aeruginosa or pseudomonad)	21
<input type="checkbox"/>	L15	L13 and (pseudomonas or aeruginosa or pseudomonad).ti,ab,clm.	7
<input type="checkbox"/>	L16	UDP-N-acetylmuramyl:L-alanine near ligase	2
<input type="checkbox"/>	L17	El-Sherbeini or ElSherbeini	41
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END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 7 of 7 returned.

- ☐ 1. 20050214773. 22 Mar 04. 29 Sep 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 435/193 435/252.3 435/320.1 435/69.1 536/23.2 C12Q001/68 C07H021/04 C12N009/10 C12N001/21 C12N015/74.
- ☐ 2. 20050181388. 04 Oct 04. 18 Aug 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 436/86 C12Q001/68 G01N033/00.
- ☐ 3. 6949336. 07 Mar 02; 27 Sep 05. Murf gene and enzyme of *Pseudomonas aeruginosa*. El-Sherbeini; Mohamend, et al. 435/4; 435/183 435/252.3 435/254.11 435/320.1 435/325 435/419 536/23.1 536/23.2 536/23.7. C12Q001/00.
- ☐ 4. 6890910. 23 Aug 01; 10 May 05. Murd protein and gene of *Pseudomonas aeruginosa*. El-Sherbeini; Mohammed, et al. 514/44; 435/252.3 435/254.11 435/320.1 435/325 435/455 435/471 435/69.1 514/459 530/350 536/23.1 536/23.2 536/23.4 536/23.7. A61K048/00.
- ☐ 5. 6870041. 07 Mar 02; 22 Mar 05. MurE protein and gene of *pseudomonas aeruginosa*. El-Sherbeini; Mohamend, et al. 536/23.7; 435/320.1 435/69.3. C07H021/04 C12N015/00 C12N015/09.
- ☐ 6. WO2003027139A. Novel crystallized recombinant polypeptides from *Staphylococcus aureus*, *Streptococcus pneumoniae* and *Helicobacter pylori* and which are involved in membrane biosynthesis, useful as targets for pathogenic bacteria. ALAM, M Z, et al. C07K014/195.
- ☐ 7. WO 200119979A. New *Pseudomonas aeruginosa* MurC enzyme involved in bacterial cell wall biosynthesis, useful for identifying inhibitors of enzyme which are active against both gram positive and gram negative bacteria. AZZOLINA, B, et al. A61K031/70 C12N015/09.

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Term	Documents
PSEUDOMONAS	49929
PSEUDOMONA	224
AERUGINOSA	21331
AERUGINOSAS	4
PSEUDOMONAD	298
PSEUDOMONADS	833
(13 AND ((PSEUDOMONAD OR AERUGINOSA OR PSEUDOMONAS).TI,AB,CLM.)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7
(L13 AND (PSEUDOMONAS OR AERUGINOSA OR PSEUDOMONAD).TI,AB,CLM.)).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	7

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[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 14 of 14 returned.**

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- ☐ 1. [20050214773](#). 22 Mar 04. 29 Sep 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 435/193 435/252.3 435/320.1 435/69.1 536/23.2 C12Q001/68 C07H021/04 C12N009/10 C12N001/21 C12N015/74.
-
- ☐ 2. [20050181388](#). 04 Oct 04. 18 Aug 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 436/86 C12Q001/68 G01N033/00.
-
- ☐ 3. [20040121396](#). 19 Dec 03. 24 Jun 04. Novel genes encoding proteins having prognostic, diagnostic, preventive, therapeutic, and other uses. Fraser, Christopher C., et al. 435/6; 435/320.1 435/325 435/69.1 530/350 530/388.1 536/23.2 800/8 C12Q001/68 A01K067/00 C07H021/04 C07K014/47.
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- ☐ 4. [6949336](#). 07 Mar 02; 27 Sep 05. Murf gene and enzyme of *Pseudomonas aeruginosa*. El-Sherbeini; Mohamend, et al. 435/4; 435/183 435/252.3 435/254.11 435/320.1 435/325 435/419 536/23.1 536/23.2 536/23.7. C12Q001/00.
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- ☐ 5. [6890910](#). 23 Aug 01; 10 May 05. MurD protein and gene of *Pseudomonas aeruginosa*. El-Sherbeini; Mohammed, et al. 514/44; 435/252.3 435/254.11 435/320.1 435/325 435/455 435/471 435/69.1 514/459 530/350 536/23.1 536/23.2 536/23.4 536/23.7. A61K048/00.
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- ☐ 6. [6870041](#). 07 Mar 02; 22 Mar 05. MurE protein and gene of *pseudomonas aeruginosa*. El-Sherbeini; Mohamend, et al. 536/23.7; 435/320.1 435/69.3. C07H021/04 C12N015/00 C12N015/09.
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- ☐ 7. [6861516](#). 03 Apr 02; 01 Mar 05. Mray gene and enzyme of *pseudomonas aeruginosa*. El-Sherbeini; Mohamed, et al. 536/23.7; 435/320.1 435/471. C07H021/04 C12N015/00 C12N015/74.
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- ☐ 8. [6211161](#). 19 Mar 99; 03 Apr 01. UDP-N-acetylmuramoyl-l-alanine:D-glutamate ligase (MURD) of staphylococcus aureus. Beattie; David T, et al. 514/44; 435/252.3 435/254.11 435/320.1 435/325 435/455 435/471 435/69.1 536/23.1 536/23.2 536/23.4 536/23.7. A61K048/00 C07H021/00 C12N015/31 C12N015/52 C12N015/63.
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- ☐ 9. [WO009961050A1](#). 26 May 99. 02 Dec 99. MURD PROTEIN AND GENE OF *PSEUDOMONAS AERUGINOSA*. EL-SHERBEINI, MOHAMED, et al. A61K039/00; A61K039/02 A61K039/108 C07H021/02 C07H021/04 C12N015/00 C12N015/20 C12P021/06 C12P021/04.
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- ☐ 10. [WO 200125251A](#). New Mray gene and enzyme of *Pseudomonas aeruginosa*, useful in vitro assays for screening antibacterial compounds that target cell wall biosynthesis, particularly for screening antibiotics against Pseudomonads. AZZOLINA, B, et al. C07H021/04 C12N015/00 C12N015/09 C12N015/74 C12P021/06.
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- ☐ 11. [WO 200119979A](#). New *Pseudomonas aeruginosa* MurC enzyme involved in bacterial cell wall biosynthesis, useful for identifying inhibitors of enzyme which are active against both gram positive and gram negative bacteria. AZZOLINA, B, et al. A61K031/70 C12N015/09.
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- ☐ 12. [WO 200119843A](#). Novel purified and isolated *Pseudomonas aeruginosa* MurE polypeptide useful in assays to identify compounds that modulate activity of the polypeptide and for generation of

antibodies against the polypeptide. AZZOLINA, B, et al. C07H021/04 C12N015/00 C12N015/09 C12P021/06.

☐ 13. WO 200118018A. New Pseudomonas aeruginosa MurF polypeptide useful in assays to identify compounds that modulate activity of the polypeptide and for generation of antibodies against the polypeptide. AZZOLINA, B, et al. C07H021/02 C07H021/04 C12N001/14 C12N001/16 C12N001/18 C12N001/20 C12N005/00 C12N005/04 C12N005/10 C12N009/00 C12N015/00 C12N015/09 C12N015/63 C12N015/70 C12N015/74 C12Q001/00 G01N033/53.

☐ 14. WO 9961050A. New nucleic acid encoding the MurD protein of Pseudomonas aeruginosa, used to identify specific inhibitors. AZZOLINA, B, et al. A61K038/00 A61K039/00 A61K039/02 A61K039/108 A61K045/00 A61K048/00 A61P031/04 C07H021/02 C07H021/04 C12N015/00 C12N015/09 C12N015/20 C12P021/04 C12P021/06.

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PSEUDOMONA	224
(17 AND PSEUDOMONAS).PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD.	14
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Search Results - Record(s) 1 through 17 of 17 returned.

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- ☐ 1. [20050214773](#). 22 Mar 04. 29 Sep 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 435/193 435/252.3 435/320.1 435/69.1 536/23.2 C12Q001/68 C07H021/04 C12N009/10 C12N001/21 C12N015/74.
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- ☐ 2. [20050192237](#). 04 Jan 01. 01 Sep 05. ANTISENSE ANTIBACTERIAL CELL DIVISION COMPOSITION AND METHOD. Iversen, Patrick L.. 514/44; 514/81 536/23.1 544/81 A61K048/00 C07F009/6533 C07H021/02.
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- ☐ 3. [20050191732](#). 24 Nov 03. 01 Sep 05. Corynebacterium glutamicum genes encoding proteins involved in homeostasis and adaptation. Pompejus, Markus, et al. 435/106; 435/193 435/252.3 435/320.1 435/6 435/69.1 536/23.2 C12Q001/68 C07H021/04 C12P013/04 C12N009/10 C12N001/21 C12N015/74.
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- ☐ 4. [20050181388](#). 04 Oct 04. 18 Aug 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 436/86 C12Q001/68 G01N033/00.
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- ☐ 5. [20050131222](#). 05 Nov 04. 16 Jun 05. Nucleotide sequence of the haemophilus influenzae Rd genome, fragments thereof, and uses thereof. Fleischmann, Robert D., et al. 536/23.7; C07H021/04.
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- ☐ 6. [20040203093](#). 03 Jun 02. 14 Oct 04. NUCLEOTIDE SEQUENCE OF THE HAEMOPHILUS INFLUENZAE RD GENOME, FRAGMENTS THEREOF, AND USES THEREOF. Fleischmann, Robert D., et al. 435/69.1; 435/320.1 435/325 435/6 536/23.2 702/20 C12Q001/68 G06F019/00 G01N033/48 G01N033/50 C07H021/04.
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- ☐ 7. [20040132041](#). 06 Oct 03. 08 Jul 04. Screening method for anti-microbial drug targets by genome-saturating mutagenesis (gsm). Fuchs, Thilo M.. 435/6; C12Q001/68.
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- ☐ 8. [20040018503](#). 27 Dec 02. 29 Jan 04. Nucleotide sequence of the haemophilus influenza Rd genome, fragments thereof, and uses thereof. Fleischmann, Robert D., et al. 435/6; 435/252.3 435/320.1 435/69.3 530/350 530/388.4 536/23.7 C12Q001/68 C07H021/04 C12P021/02 C12N001/21 C07K014/195 C12N015/74.
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- ☐ 9. [20020197605](#). 18 Dec 00. 26 Dec 02. Novel Polynucleotides. Nakagawa, Satoshi, et al. 435/6; 435/287.2 435/91.2 C12Q001/68 C12P019/34 C12M001/34.
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- ☐ 10. [6890910](#). 23 Aug 01; 10 May 05. MurD protein and gene of Pseudomonas aeruginosa. El-Sherbeini; Mohammed, et al. 514/44; 435/252.3 435/254.11 435/320.1 435/325 435/455 435/471 435/69.1 514/459 530/350 536/23.1 536/23.2 536/23.4 536/23.7. A61K048/00.
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- ☐ 11. [6846651](#). 03 Jun 02; 25 Jan 05. Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof. Fleischmann; Robert D., et al. 435/69.1; 435/252.3 435/320.1 536/23.7. C12N015/63 C12N001/21 C12N015/31.
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- ☐ 12. [6562958](#). 04 Jun 99; 13 May 03. Nucleic acid and amino acid sequences relating to Acinetobacter baumannii for diagnostics and therapeutics. Breton; Gary, et al. 536/23.7; 536/23.1. C07H021/02.
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☐ 13. 6528289. 23 Aug 00; 04 Mar 03. Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof. Fleischmann; Robert D., et al. 435/91.41; 435/252.3 435/320.1 435/6 536/23.1 536/23.7. C12N015/64.

☐ 14. 6506581. 25 Apr 00; 14 Jan 03. Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof. Fleischmann; Robert D., et al. 435/69.1; 435/252.3 435/320.1 435/69.3 435/91.41 536/23.7. C12N001/21 C12N015/31 C12N015/63.

☐ 15. 6251647. 03 Dec 97; 26 Jun 01. Auxiliary genes and proteins of methicillin resistant bacteria and antagonists thereof. de Lencastre; Herminia, et al. 435/193; 435/252.1 435/252.33 435/320.1 435/471 536/23.1. C12N009/10 C12N015/00.

☐ 16. WO2003027139A. Novel crystallized recombinant polypeptides from Staphylococcus aureus, Streptococcus pneumoniae and Helicobacter pylori and which are involved in membrane biosynthesis, useful as targets for pathogenic bacteria. ALAM, M Z, et al. C07K014/195.

☐ 17. WO 200119979A. New Pseudomonas aeruginosa MurC enzyme involved in bacterial cell wall biosynthesis, useful for identifying inhibitors of enzyme which are active against both gram positive and gram negative bacteria. AZZOLINA, B, et al. A61K031/70 C12N015/09.

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20050214773. 22 Mar 04. 29 Sep 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 435/193 435/252.3 435/320.1 435/69.1 536/23.2 C12Q001/68 C07H021/04 C12N009/10 C12N001/21 C12N015/74.

☐ 2. 20050192237. 04 Jan 01. 01 Sep 05. ANTISENSE ANTIBACTERIAL CELL DIVISION COMPOSITION AND METHOD. Iversen, Patrick L.. 514/44; 514/81 536/23.1 544/81 A61K048/00 C07F009/6533 C07H021/02.

☐ 3. 20050191732. 24 Nov 03. 01 Sep 05. Corynebacterium glutamicum genes encoding proteins involved in homeostasis and adaptation. Pompejus, Markus, et al. 435/106; 435/193 435/252.3 435/320.1 435/6 435/69.1 536/23.2 C12Q001/68 C07H021/04 C12P013/04 C12N009/10 C12N001/21 C12N015/74.

☐ 4. 20050181388. 04 Oct 04. 18 Aug 05. Novel purified polypeptides from bacteria. Edwards, Aled, et al. 435/6; 436/86 C12Q001/68 G01N033/00.

☐ 5. 20050131222. 05 Nov 04. 16 Jun 05. Nucleotide sequence of the haemophilus influenzae Rd genome, fragments thereof, and uses thereof. Fleischmann, Robert D., et al. 536/23.7; C07H021/04.

☐ 6. 20040203093. 03 Jun 02. 14 Oct 04. NUCLEOTIDE SEQUENCE OF THE HAEMOPHILUS INFLUENZAE RD GENOME, FRAGMENTS THEREOF, AND USES THEREOF. Fleischmann, Robert D., et al. 435/69.1; 435/320.1 435/325 435/6 536/23.2 702/20 C12Q001/68 G06F019/00 G01N033/48 G01N033/50 C07H021/04.

☐ 7. 20040132041. 06 Oct 03. 08 Jul 04. Screening method for anti-microbial drug targets by genome-saturating mutagenesis (gsm). Fuchs, Thilo M.. 435/6; C12Q001/68.

☐ 8. 20040018503. 27 Dec 02. 29 Jan 04. Nucleotide sequence of the haemophilus influenza Rd genome, fragments thereof, and uses thereof. Fleischmann, Robert D., et al. 435/6; 435/252.3 435/320.1 435/69.3 530/350 530/388.4 536/23.7 C12Q001/68 C07H021/04 C12P021/02 C12N001/21 C07K014/195 C12N015/74.

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☐ 10. 6890910. 23 Aug 01; 10 May 05. Murd protein and gene of Pseudomonas aeruginosa. El-Sherbeini; Mohammed, et al. 514/44; 435/252.3 435/254.11 435/320.1 435/325 435/455 435/471 435/69.1 514/459 530/350 536/23.1 536/23.2 536/23.4 536/23.7. A61K048/00.

☐ 11. 6846651. 03 Jun 02; 25 Jan 05. Nucleotide sequence of the Haemophilus influenzae Rd genome, fragments thereof, and uses thereof. Fleischmann; Robert D., et al. 435/69.1; 435/252.3 435/320.1 536/23.7. C12N015/63 C12N001/21 C12N015/31.

☐ 12. 6562958. 04 Jun 99; 13 May 03. Nucleic acid and amino acid sequences relating to Acinetobacter baumannii for diagnostics and therapeutics. Breton; Gary, et al. 536/23.7; 536/23.1. C07H021/02.

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☐ 15. 6251647. 03 Dec 97; 26 Jun 01. Auxiliary genes and proteins of methicillin resistant bacteria and antagonists thereof. de Lencastre; Herminia, et al. 435/193; 435/252.1 435/252.33 435/320.1 435/471 536/23.1. C12N009/10 C12N015/00.

☐ 16. WO2003027139A. Novel crystallized recombinant polypeptides from *Staphylococcus aureus*, *Streptococcus pneumoniae* and *Helicobacter pylori* and which are involved in membrane biosynthesis, useful as targets for pathogenic bacteria. ALAM, M Z, et al. C07K014/195.

☐ 17. WO 200119979A. New *Pseudomonas aeruginosa* MurC enzyme involved in bacterial cell wall biosynthesis, useful for identifying inhibitors of enzyme which are active against both gram positive and gram negative bacteria. AZZOLINA, B, et al. A61K031/70 C12N015/09.

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L16: Entry 1 of 2

File: USPT

Apr 6, 1999

DOCUMENT-IDENTIFIER: US 5891621 A

TITLE: Metabolic pathway assay

Other Reference Publication (12):

Gubler et al., "Overexpression, Purification, and Characterization of UDP-N-Acetylmuramyl:L-Alanine Ligase from *Escherichia coli*," *Journal of Bacteriology*, Feb. 1996, pp. 906-910 (1996).

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L16: Entry 2 of 2

File: DWPI

Mar 22, 2001

DERWENT-ACC-NO: 2001-281522

DERWENT-WEEK: 200129

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TITLE: New *Pseudomonas aeruginosa* MurC enzyme involved in bacterial cell wall biosynthesis, useful for identifying inhibitors of enzyme which are active against both gram positive and gram negative bacteria

INVENTOR: AZZOLINA, B; EL-SHERBEINI, M

PATENT-ASSIGNEE: MERCK & CO INC (MERI)

PRIORITY-DATA: 1999US-154073P (September 14, 1999)

[Search Selected](#)[Search ALL](#)[Clear](#)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> WO 200119979 A1	March 22, 2001	E	039	C12N015/09

DESIGNATED-STATES: CA JP US AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
WO 200119979A1	September 11, 2000	2000WO-US24845	

INT-CL (IPC): [A61 K 31/70](#); [C12 N 15/09](#)

ABSTRACTED-PUB-NO: WO 200119979A

BASIC-ABSTRACT:

NOVELTY - Purified and isolated *Pseudomonas aeruginosa* UDP-N-acetylmuramyl:L-alanine ligase (MurC) protein or a polypeptide (I) which has the fully defined 487 amino acid sequence (S2) given in the specification, or that is a naturally occurring mutant or polymorphic form of (S2), is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (1) an isolated polynucleotide (II) which has:
 - (a) a nucleotide sequence encoding (S2);
 - (b) a polynucleotide which is complementary to (a);

(c) a nucleotide sequence which represents a naturally occurring mutant or polymorphic form of (I);

(d) a nucleotide sequence that hybridizes with (a) (b) or (c) under stringent conditions; or

(e) a nucleotide sequence which comprises at least 25 nucleotides of (a), (b) or (c), which is specific for (I);

(f) an expression vector (III) comprising (II);

(2) a host cell (IV) comprising (III);

(3) production of (I);

(4) determining (M) whether a candidate compound is an inhibitor of (I) comprises:

(1) providing (IV), and contacting at least one of the cells with the candidate to permit the interaction of the candidate with (I); and

(2) determining whether the candidate is an inhibitor of (I) by ascertaining the relative activity of (I) in the presence of the candidate; or

(3) providing a sample that includes a MurC polypeptide such as a polypeptide having a sequence of (S2), a polypeptide that is a functional derivative of (S2) or a polypeptide that is a naturally occurring mutant or polymorphic form of (S2);

(4) contacting the sample with the candidate to permit the interaction of the candidate with the MurC polypeptide; and

(5) determining whether the candidate is an inhibitor of (I) by ascertaining the relative activity of (I) in the presence of the candidate; and

(5) a compound that is an inhibitor of (I).

ACTIVITY - Antibacterial.

No supporting data is given.

MECHANISM OF ACTION - ATP-dependent amino acid ligase.

USE - (I) and (M) are useful for identifying compounds that inhibit the activity of the protein (claimed). Inhibitors of (I) are useful as broad spectrum antibiotics against gram positive/negative bacteria (claimed).

(II) are useful in the expression and production of P.aeruginosa MurC protein. Partial or full length (II) can be used as probes for detecting the presence of P.aeruginosa MurC DNA or RNA, and to study the effects of modulators of MurC transcription.

Polynucleotides having sequences that are unique or specific for P.aeruginosa MurC can be used as primers in amplification reaction assays for use in tissue typing. The primers can also be used to obtain amplified P.aeruginosa MurC cDNA using MurC cDNA of the cells as an initial template. The polynucleotides can also be used in identification of various polymorphic P.aeruginosa MurC genes or the detection of

an organism having a P.aeruginosa murC gene.

(I) is useful for generating antibodies against the proteins, structural studies of the protein and structure/function relationships of the protein.

ABSTRACTED-PUB-NO: WO 200119979A

EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/2

DERWENT-CLASS: B04 D16

CPI-CODES: B04-C01G; B04-E03E; B04-E05; B04-E08; B04-F10A; B04-F10A6; B04-F10B;
B04-F1100E; B04-L08; B04-M01; B11-C08E5; B12-K04A4; B12-K04E; B12-K04F; B14-A01;
B14-A01A6; D05-C03G; D05-H04; D05-H09; D05-H12A; D05-H12E; D05-H14A1; D05-H17A3;

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DOCUMENT-IDENTIFIER: US 6949336 B1

TITLE: MurF gene and enzyme of Pseudomonas aeruginosa

Abstract Text (1):

This invention provides isolated polynucleotides that encode the MurF (UDP-N-acetylmuramyl-L-alanine-D-glutamate-m-DaD:D-alanine-D-alanine ligase) protein of Pseudomonas aeruginosa. Purified and isolated MurF recombinant proteins are also provided. Nucleic acid sequences which encode functionally active MurF proteins are described. Assays for the identification of modulators of the expression of murF and inhibitors of the activity of MurF, are also provided.

Detailed Description Text (55):

All reagents were purchased from SIGMA CHEMICAL CO., St. Louis, Mo., unless otherwise indicated. UDP-N-acetylmuramyl-L-alanine was synthesized and purified by a method known in the art (Jin, H., Emanuele, J. J., Jr., Fairman, R., Robertson, J. G., Hail, M. E., Ho, H.-T., Falk, P. and Villafranca, J. J., 1996. Structural studies of Escherichia coli UDP-N-acetylmuramate: L-alanine ligase, Biochemistry 35: 14423-14431).

CLAIMS:

7. A process for expressing a MurF protein of Pseudomonas aeruginosa in a recombinant host cell, comprising: (a) transforming a suitable host cell with an expression vector of claim 5; and (b) culturing the host cell of step (a), under conditions which allow expression of said the MurF protein from said expression vector.
9. A method of determining whether a candidate compound is an inhibitor of a Pseudomonas aeruginosa MurF polypeptide comprising: (a) providing at least one host cell harboring an expression vector that includes a polynucleotide encoding a polypeptide having the amino acid sequence of SEQ ID NO: 2, (b) contacting at least one of said cells with the candidate to permit the interaction of the candidate with the MurF polypeptide, and (c) determining whether the candidate is an inhibitor of the MurF polypeptide by ascertaining the relative activity of the polypeptide in the presence of the candidate.
12. A method of determining whether a candidate compound is an inhibitor of a Pseudomonas aeruginosa MurF polypeptide comprising: (a) providing a sample that includes a MurF polypeptide having the amino acid sequeence of SEQ ID NO: 2, (b) contacting said sample with the candidate to permit the interaction of the candidate with the MurF polypeptide, and (c) determining whether the candidate is an inhibitor of the MurF polypeptide by ascertaining the relative activity of the MurF polypeptide in the presence of the candidate.

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L4: Entry 10 of 17

File: USPT

May 10, 2005

US-PAT-NO: 6890910

DOCUMENT-IDENTIFIER: US 6890910 B1

TITLE: Murd protein and gene of Pseudomonas aeruginosa

DATE-ISSUED: May 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
El-Sherbeini; Mohammed	Westfield	NJ		
Azzolina; Barbara	Denville	NJ		

US-CL-CURRENT: 514/44; 435/252.3, 435/254.11, 435/320.1, 435/325, 435/455, 435/471,
435/69.1, 514/459, 530/350, 536/23.1 , 536/23.2, 536/23.4, 536/23.7

CLAIMS:

What is claimed is:

1. An isolated and purified polynucleotide selected from the group consisting of: (a) a polynucleotide encoding a polypeptide having the amino acid sequence of SEQ ID NO: 2, and (b) a polynucleotide which is fully complementary to the polynucleotide of (a)..
2. The polynucleotide of claim 1 wherein the polynucleotide encoding a polypeptide having the amino acid sequence of SEQ ID NO: 2 comprises the nucleotide sequence of SEQ ID NO:1.
3. An isolated and purified polynucleotide that is an expression vector comprising a polynucleotide of claim 1.
4. A host cell comprising the heterologous expression vector of claim 3.
5. A process for expressing a polypeptide having the amino acid sequence of SEQ ID NO: 2 in a recombinant host cell, comprising: (a) transforming a host cell with an expression vector of claim 3; and, (b) culturing the host cell of step (a) in conditions under which allow expression of said polypeptide from said expression vector.

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L15: Entry 5 of 7

File: USPT

Mar 22, 2005

US-PAT-NO: 6870041

DOCUMENT-IDENTIFIER: US 6870041 B1

TITLE: MurE protein and gene of pseudomonas aeruginosa

DATE-ISSUED: March 22, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
El-Sherbeini; Mohamend	Westfield	NJ		
Azzolina; Barbara	Denville	NJ		

US-CL-CURRENT: 536/23.7; 435/320.1, 435/69.3

CLAIMS:

What is claimed is:

1. An isolated and purified polynucleotide selected from the group consisting of: (a) a polynucleotide encoding a polypeptide having the amino acid sequence of SEQ ID NO: 2, and (b) a polynucleotide which is fully complementary to the polynucleotide of (a).
2. The polynucleotide of claim 1 comprising the nucleotide sequence of SEQ ID NO: 1.
3. An expression vector comprising the polynucleotide of claim 1.
4. An isolated host cell comprising the expression vector of claim 3.

DOCUMENT-IDENTIFIER: US 6870041 B1

TITLE: MurE protein and gene of pseudomonas aeruginosa

Abstract Text (1):

This invention provides isolated polynucleotides that encode the MurE protein of Pseudomonas aeruginosa. Purified and isolated MurE recombinant proteins are also provided. Nucleic acid sequences which encode functionally active MurE proteins are described. Assays for the identification of modulators of the expression of murE and inhibitors of the activity of MurE, are also provided.

Detailed Description Text (57):

All reagents were purchased from SIGMA CHEMICAL CO., St. Louis, Mo., unless otherwise indicated. UDP-N-acetylmuramyl-L-alanine was synthesized and purified by a method known in the art (Jin, H., Emanuele, J. J., Jr., Fairman, R., Robertson, J. G., Hail, M. E., Ho, H.-T., Falk, P. and Villafranca, J. J, 1996. Structural studies of Escherichia coli UDP-N-acetylmuramate: L-alanine ligase, Biochemistry 35: 14423-14431).